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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/790,680	03/03/2004	Hua Wu	108910-00124	2305
4372 75	590 03/03/2006		EXAMINER	
ARENT FOX		HU, HENRY S		
1050 CONNECTICUT AVENUE, N.W.			ART UNIT	PAPER NUMBER
SUITE 400				THE ENTITION DER
WASHINGTON, DC 20036			1713	
		DATE MAILED: 03/03/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/790,680	WU ET AL.			
Office Action Summary	Examiner	Art Unit			
	Henry S. Hu	1713			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period was preply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timulated the second will expire SIX (6) MONTHS from cause the application to become ABANDONEI	J.  lely filed  the mailing date of this communication.  O (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>Pre-A-2a</u> 2a) This action is <b>FINAL</b> .  2b) This  3) Since this application is in condition for allowar closed in accordance with the practice under E-	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 18-33 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 18-33 are subject to restriction and/or	vn from consideration.	,			
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction in the original sheet are considered to by the Examiner.	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a)  All b)  Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary ( Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:				

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## **DETAILED ACTION**

1. This application 10/790,680 filed on March 3, 2004 is a <u>DIV</u> of 10/205,494 (now allowed). It is noted that USPTO has received <u>Pre-Amendment</u> and <u>IDS</u> both filed on March 3, 2004 with this application. Original set of Claims 1-17 was cancelled; new set of Claims 18-33 was added. Claims 18-33 are now pending with three (<u>not two</u> as shown in Bib paper) independent claims (Claim 18, Claim 31 and Claim 33). An action follows.

## Election/Restrictions

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
- I. Claims <u>18-30</u> and <u>33</u>, drawn to a low extractable cation (< 1 ppm) and thermo-processable copolymer comprising TFE and at least one co-monomer(s) as specified, classified in class 526, subclass 247.
- II. Claims 31-32, drawn to a monomeric compound (A-II) having a formula of  $CFX_{AI}=CX_{AI}-O-CF_2-OCF_2-CF_2-Y_{AI}$  with  $Y_{AI}=F$  or  $OCF_3$  and  $X_{AI}=F$  or H, classified in class 526, subclass 252:
- 3. The inventions are distinct, each from the others because of the following reasons:

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Invention II and Invention I are related as mutually exclusive species in an intermediate-final product relationship. Distinctness is proven for claims in this relationship if the intermediate product is useful to make other than the final product (MPEP § 806.04(b), 3rd paragraph), and the species are patentably distinct (MPEP § 806.04(h)). In the instant case, the intermediate product is deemed to be useful as a monomeric compound, and the inventions are deemed patentably distinct since there is nothing on this record to show them to be obvious variants. Additionally, TFE copolymers from Invention I are purified through washing the polymer gel. Finally, there are a total of eight types of monomers can be used as comonomer(s).

4. In the instant case, <u>at most</u> some of TFE copolymers from Invention I may contain repeating units from Invention II. For instance, a monomeric compound (A-II) has a formula of CFX<sub>AI</sub>=CX<sub>AI</sub>-O-CF<sub>2</sub>-OCF<sub>2</sub>-CF<sub>2</sub>-Y<sub>AI</sub> with Y<sub>AI</sub> = F or OCF<sub>3</sub> and X<sub>AI</sub> = F or H. However, the individual property of monomer(s) will not be shown in its polymers mainly due to tremendous difference in molecular weight. Additionally, <u>a monomer may be used as a regular organic compound rather than be used as a monomer for polymerization</u>. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions anticipated by the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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5. <u>Three</u> independent claims (Claim <u>1</u>, Claim <u>31</u> and Claim <u>33</u> marked with underline) are pending now. In a close examination, the copolymers from Claim 33 are thermo-processable TFE copolymers and are required to carry a low extractable cation (< 1 ppm). Therefore, Claim 33 is joined with Claims 18-30 as Group I.

- 6. Because these inventions are distinct for the reasons given above and the search required for each group is not required for other groups have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 7. It is noted that no phone call was made to Amy E. L. Schoenhard (tel: 202 857-6000) by the examiner due to the complexity on this particular case. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

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8. Any inquiry concerning this communication or earlier communication from the examiner

should be directed to Dr. Henry S. Hu whose telephone number is (571) 272-1103. The

examiner can be reached on Monday through Friday from 9:00 AM -5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Wu, can be reached on (571) 272-1114. The fax number for the organization

where this application or proceeding is assigned is (571) 273-8300 for all regular

communications.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Henry S. Hu

Patent Examiner, Art Unit 1713, USPTO

February 27, 2006

DAVID W. WU

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